

2007 Langston University Combined Research and Extension Plan of Work

Brief Summary about Plan of Work

We live in an age of soaring technological advances impacting arguably every aspect of our lives. From high definition television, to MP3s, to I-Pods, to Blackberries, to wireless computer links to GPS enhanced vehicles, and video cellular phones, technological advances have been interwoven into the very fabric of society here in the United States and abroad.

However, as is often the case, there are exceptions to the rules. Even as just down the street from a stately highrise corporate building there stands an extremely modest single family dwelling; and just down the road past the columns of cellular towers there lies an area with little or no cellular reception; and just around the bend from the two thousand acre conventional wheat farms and cattle ranches with the most recent advances in Precision Agriculture and Best Management Practices and hundreds of acres in the Conservation Reserve Program (CRP), there lie the small farms, many standing on the other side of the great digital divide trying to sustain and survive.

The Research and Cooperative Extension Program at Langston University is dedicated to serving all citizens of Oklahoma. However, our programs and methods of delivery are often very appealing to the under-served and under-represented diverse populations of the state, including small farmers. Our Cooperative Extension and Outreach efforts serve as vehicles for taking scholarly, peer-review and stakeholder driven research findings, demonstration and education activities to the citizens of Oklahoma; many of whom still dwell on the other side of the great digital divide.

Included in Langston University's 2007-2011 combined Research and Extension Plan of Work are our goals and expected outcomes for the next five (5) years, as well as the process for moving along the links in the logic model chain to achieve targeted outcomes and impacts. Projected outcomes and impacts will include providing deliverables that contribute to enhancing the economic status, health and quality of life for the citizens of Oklahoma; and to make them more competitive as viable producers in niche markets and in the greater global agricultural arena.

Estimated number of professional FTEs/SYs to be budgeted for this plan.

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	29.2	0.0	9.8
2008	0.0	29.2	0.0	10.8
2009	0.0	29.7	0.0	10.8
2010	0.0	29.2	0.0	10.8
2011	0.0	29.2	0.0	10.8

Merit Review Process

The merit review process that will be employed during the 5-Year Plan of Work cycle

- Internal University Panel
- External University Panel
- Expert Peer Review

Brief explanation

Currently, all new Extension and Research programs are reviewed by a respective panel composed of colleagues and managers. This process was in place during the last 5-Year Plan of Work (2000-2004 & 2005-2006).

Research programs have received more external review than Extension programs but a process will be put in place to increase external merit review for Extension programs.

All approved programs will be evaluated against the logic model to determine how inputs will lead to outputs and outcomes.

Evaluation of Multis & Joint Activities

1. How will the planned programs address the critical issues of strategic importance, including those identified by the stakeholders?

The planned programs were strongly influenced by stakeholders, researchers, Extension personnel and others who identified the most critical issues to be addressed.

Surveys, questionnaires and in-person feedback from stakeholders have provided invaluable information that has been used in planning programs and which direction the program will proceed

2. How will the planned programs address the needs of under-served and under-represented populations of the State(s)?

In general, all of our programs reach under-served and under-represented groups. The following are examples of the work:

Program 1. Many small to medium-sized producers have received information and/or hands-on instructions to enhance their operations and improve the value of their products.

Program 3. Small fish producers are seeing the value of working with alternative fish species such as the Buffalo.

Program 4. Small fish producers have benefited from selling their fish directly to the public.

Program 10. Small and medium size fish producers have received demonstrations and instructions in the design of fish feeders.

Program 13. Many minority children in rural and inner city areas have been reached and gotten involved in 4-H.

Program 16. Minority children have been enrolled in this program and had their reading skills enriched both during the summer months and after school during the regular school year.

Program 17. This program has reached elderly minorities, presented them with tips for good nutrition and taught age-appropriate exercise techniques.

Program 18. Several historically minority rural communities have been assisted in developing plans to improve their infrastructure and develop plans to enhance their economy.

3. How will the planned programs describe the expected outcomes and impacts?

Planned programs have specific outputs that will lead to outcomes and eventually to impacts.

Some outcomes will be realized sooner than others. For each planned program, progress will be made throughout each year towards outcomes and impacts.

4. How will the planned programs result in improved program effectiveness and/or efficiency?

Research and Extension programs at Langston University have worked in union for many years to make our program more efficient and cost-effective. The planned programs included in this Plan of Work will reflect the ongoing commitment of joint efforts between research and extension programs to ensure efficient and effective programs.

Stakeholder Input

1. Actions taken to seek stakeholder input that encourages their participation (Check all that apply)

- Survey of traditional stakeholder individuals
- Survey of the general public

Brief explanation.

Targeted stakeholder groups are sent surveys, contacted via e-mail and complete surveys during field days.

The general public receives surveys during field days and have opportunities to offer input via the web site and during field days, workshops and on-farm visits.

2(A). A brief statement of the process that will be used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use External Focus Groups

Brief explanation.

Annual Goat and Aquaculture Field Days are held to educate producers, highlight and disseminate research findings. Attendees are requested to complete surveys to be used in planning future research projects and workshops. Telephone surveys are also used to gather stakeholder input.

2(B). A brief statement of the process that will be used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with traditional Stakeholder groups
- Survey of traditional Stakeholder groups
- Other (Telephone surveys of stakeholders.)

Brief explanation

Stakeholder information is obtained from surveys and session evaluations during demonstrations, seminars, workshops and field days.

3. A statement of how the input will be considered

- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs

Brief explanation.

In general, our research and extension efforts are stakeholder-driven. 4-H programs and activities are tailored to meet the needs of our stakeholders. Aquaculture projects, fact sheet and field days are designed to meet the needs and concerns of our stakeholders. Suggestion from stakeholder via surveys and verbal comments during goat field days are reviewed and some are incorporated into future selected field day topics and field day events. At the requests of stakeholders, a youth program component was incorporated into the Annual Goat Field Day.

1. Name of the Planned Program

Enhanced Goat Production in the South-Central United States

2. Program knowledge areas

- 302 Nutrient Utilization in Animals 30 %
- 502 New and Improved Food Products 20 %
- 307 Animal Management Systems 30 %
- 313 Internal Parasites in Animals 20 %

3. Program existence

- Intermediate (One to five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

This program will address factors impacting the level of goat production and the efficiency of goat production systems. Areas to be address will include nutrition, managment, health and product utilization (including meat and milk). This program is expected to produce discoveries with postivie impacts for got producers and consumers.

6. Situation and priorities

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products in the United States economy. Goat production is becoming an evermore important component of the production system of many small and/or limited resource producers.

7. Assumptions made for the Program

Funding will remain contant or increase. Enhanced goat production methods will be discovered.

8. Ultimate goal(s) of this Program

To develop more efficient production systems for goat production.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other then formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYS to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.0	0.0	3.0
2008	0.0	0.0	0.0	4.0
2009	0.0	0.0	0.0	4.0
2010	0.0	0.0	0.0	4.0
2011	0.0	0.0	0.0	4.0

Outputs for the Program

13. Activity (What will be done?)

We will publish scientific articles, present research papers at scientific meetings, with newsletters and present workshops and demonstrations

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites ● Other 1 (Proceedings)

15. Description of targeted audience

All present/potential goat producers in Oklahoma and surrounding states.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	500	1000	100	0
2008	500	1000	100	0
2009	500	1000	100	0
2010	500	1000	100	0
2011	500	1000	100	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

{NO DATA ENTERED}

Target: {NO DATA ENTERED}

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning new goat production techniques

Outcome Type: Long

2007 Target: 400

2008 Target: 400

2009 Target: 400

2010 Target: 400

2011 Target: 400

Outcome Text

Number of goat producers using new goat production techniques

Outcome Type: Long

2007 Target: 30

2008 Target: 40

2009 Target: 50

2010 Target: 60

2011 Target: 80

20. External factors which may affect outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Other (Disease)

Description

Drought would affect the ability of goat producers to raise their own forages and increase production costs. Disease or serious parasite infestations could devastate the herds of producers and our research efforts.

21. Evaluation studies planned

- During (during program)

Description

Each year, the program will be evaluated for its merit and contributions to stakeholders.

22. Data Collection Methods

- Sampling
- Mail
- Telephone
- On-Site
- Journals

Description

Surveys will be conducted during field days and workshops.

1. Name of the Planned Program

Community Resource Development

2. Program knowledge areas

- 608 Community Resource Planning and Development 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Community Resource Development Program works with rural and urban communities to help them develop plans to improve infrastructure, develop housing, create jobs, improve roads and upgrade rural fire departments. This program also assists small business owners in their business expansion efforts.

6. Situation and priorities

In general, rural communities in Oklahoma are faced with the ongoing challenges of a shortage of job opportunities, limited community services and a declining population. These communities need assistance with developing plans to boost their economy.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To assist rural and urban communities in Oklahoma with the economic rejuvenation of their township.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- No

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct meetings, community forums and workshops to help participants develop strategic community development plans.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Seminars) ● Other 2 (Forums) 	<ul style="list-style-type: none"> ● Other 1 (Flyers) ● Other 2 (Handouts)

15. Description of targeted audience

Citizens of Oklahoma

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	200	0	0
2008	100	200	0	0
2009	100	200	0	0
2010	100	200	0	0
2011	100	200	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects Completed on Community Resource Development.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of participants who learned about strategies for improving the economy and/or infrastructure of their community.

Outcome Type: Long

2007 Target: 200
 2008 Target: 200
 2009 Target: 200
 2010 Target: 200
 2011 Target: 200

Outcome Text

Number of participants who used strategies for improving the economy and/or infrastructure of their community.

Outcome Type: Long

2007 Target: 50
 2008 Target: 50
 2009 Target: 80
 2010 Target: 80
 2011 Target: 80

Outcome Text

Number of communities that improved their economy and/or infrastructure.

Outcome Type: Long

2007 Target: 1

2008 Target: 1

2009 Target: 2

2010 Target: 2

2011 Target: 3

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Natural disasters such as hurricanes, floods or prolonged droughts could affect outcomes with communities because their priorities may then be redirected.

21. Evaluation studies planned

- During (during program)
- Case Study

Description

During the program, milestones achieved by communities towards community development goals will be observed and documented.

22. Data Collection Methods

- Observation

Description

Milestones that are reached will be used to evaluate program effectiveness.

1. Name of the Planned Program

School Enrichment

2. Program knowledge areas

- 806 Youth Development 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

School enrichment is Langston University's Ag-in-the-Classroom Program. Students are taught about the importance of agriculture as a vocation, a science and a very necessary industry. The Goat-Kid-in-the-Classroom and Aquaculture-in-the-Classroom activities are a part of this program.

6. Situation and priorities

Through this program, youth are made aware of the importance of agriculture and agricultural products. Youth are also taught about nutrition, decision making and science.

7. Assumptions made for the Program

Funding will be constant.

8. Ultimate goal(s) of this Program

To help program participants realize the importance of agriculture on an economic, social and environmental basis.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- No

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct indoor and outdoor classes and demonstrations via baby goals and moveable fish tank to teach youth about the importance of agriculture and agricultural products.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Demonstrations 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Flyers)

15. Description of targeted audience

Youth in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	200	300
2008	0	0	200	300
2009	0	0	200	300
2010	0	0	200	300
2011	0	0	200	300

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on School Enrichment.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of youth taught about agriculture and other life skills through the School Enrichment Program.

Outcome Type: Long

2007 Target: 200
 2008 Target: 200
 2009 Target: 200
 2010 Target: 200
 2011 Target: 200

Outcome Text

Number of youth who used information presented during the School Enrichment Program.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 20
 2011 Target: 20

Outcome Text

Number of youth who gained an appreciation for agriculture and who gained new skills.

Outcome Type: Long

2007 Target: 20

2008 Target: 20

2009 Target: 20

2010 Target: 20

2011 Target: 20

20. External factors which may affect outcomes

- Competing Public priorities

Description

Public view of the importance of agriculture as an industry could affect our access to students during school hours.

21. Evaluation studies planned

- During (during program)

Description

Pre- and post-tests will be used to evaluate the program.

22. Data Collection Methods

- Whole population

Description

Pre- and post-tests will be used.

1. Name of the Planned Program

Teen Pregnancy Prevention

2. Program knowledge areas

- 802 Human Development and Family Well-Being 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Teen Pregnancy Prevention Program will provide educational information to teach youth about health, pregnancy prevention, pregnancy, child care, nutrition, sanitation and decision making.

6. Situation and priorities

Oklahoma ranks high among other states in the number of teen births. A teen pregnancy prevention program is needed to help change this trend through proper education concerning making positive relationship decisions.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To significantly reduce the number of teen pregnancies in Oklahoma and to help equip teens who are pregnant to obtain prenatal care.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct classes, workshops, seminars and have community forums to teach teenagers about pregnancy prevention. Health care information will also be provided for teens who have become pregnant.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Seminars) 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Flyers)

15. Description of targeted audience

Teenagers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	200	300
2008	0	0	200	300
2009	0	0	200	300
2010	0	0	200	300
2011	0	0	200	300

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

{NO DATA ENTERED}

Target: {NO DATA ENTERED}

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of teens being taught about pregnancy prevention.

Outcome Type: Long

2007 Target: 200

2008 Target: 200

2009 Target: 200

2010 Target: 200

2011 Target: 200

Outcome Text

Number of teens using pregnancy prevention information.

Outcome Type: Long

2007 Target: 100

2008 Target: 100

2009 Target: 100

2010 Target: 100

2011 Target: 100

Outcome Text

Number of teen pregnancies prevented.

Outcome Type: Long

2007 Target: 70

2008 Target: 70

2009 Target: 70

2010 Target: 70

2011 Target: 70

20. External factors which may affect outcomes

- Other (Social views)

Description

Social views on the morality of teen pregnancy could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Pre- and post-tests will be used.

22. Data Collection Methods

- Whole population

Description

Pre- and post-tests will be used.

1. Name of the Planned Program

Drug and Alcohol Prevention

2. Program knowledge areas

- 802 Human Development and Family Well-Being 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Drug and Alcohol Prevention Program will use developmental experiential techniques to teach drug and alcohol prevention. These techniques will include using animal care, gardening and sports as vehicles for informing teens about the dangers of drug and alcohol useage.

6. Situation and priorities

Youth who are not knowledgeable about the potentially devastating effects of drugs, alcohol and tobacco products are more susceptible to substance abuse, teen pregnancy, gang violence, school drop-out and other health-related problems.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To significantly reduce the amount of youth alcohol and drug useage in Oklahoma.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other then formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct classes, workshops, seminars and have community forums to teach youth about the potential dangers involved in drug and alcohol useage.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Seminars) 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Flyers)

15. Description of targeted audience

Youth in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	200	300
2008	0	0	200	300
2009	0	0	200	300
2010	0	0	200	300
2011	0	0	200	300

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Drug and Alcohol prevention.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 1
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of teens being taught about drug and alcohol prevention.

Outcome Type: Long

2007 Target: 200
 2008 Target: 200
 2009 Target: 200
 2010 Target: 200
 2011 Target: 200

Outcome Text

Number of teens using drug and alcohol prevention information.

Outcome Type: Long

2007 Target: 50
 2008 Target: 50
 2009 Target: 50
 2010 Target: 50
 2011 Target: 50

Outcome Text

Number of youth prevented from abusing drugs and alcohol.

Outcome Type: Long

2007 Target: 50

2008 Target: 50

2009 Target: 50

2010 Target: 50

2011 Target: 50

20. External factors which may affect outcomes

- Other (Social Views)

Description

Social views on drug and alcohol usage could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Pre- and post-tests will be conducted to evaluate program effectiveness.

22. Data Collection Methods

- Sampling

Description

Pre- and post-tests will be used.

1. Name of the Planned Program

4-H Clubs

2. Program knowledge areas

- 806 Youth Development 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

This program will engage youth as active partners and leaders who can help move their communities forward.

6. Situation and priorities

Youth, especially in rural areas, need safe, wholesome programs that teach positive values and help youth develop positive lifelong skills such as leadership and public speaking.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To develop positive attributes in youth such as healthy lifestyles, good citizenship, leadership and other life skills.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	10.0	0.0	0.0
2008	0.0	10.0	0.0	0.0
2009	0.0	10.0	0.0	0.0
2010	0.0	10.0	0.0	0.0
2011	0.0	10.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

The 4-H program will conduct meetings, training sessions, classes and use other learning vehicles to help youth develop life skills.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Demonstrations ● Other 1 (Meetings) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

15. Description of targeted audience

Youth in Oklahoma who qualify for the program.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	200	300
2008	0	0	200	300
2009	0	0	200	300
2010	0	0	200	300
2011	0	0	200	300

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of of Research Projects completed in the 4-H Club Program.

2007 Target: 0
2008 Target: 0
2009 Target: 0
2010 Target: 0
2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of youth learning new informations from the 4-H Club Program.

Outcome Type: Long

2007 Target: 200
2008 Target: 200
2009 Target: 200
2010 Target: 200
2011 Target: 200

Outcome Text

Number of youth using information learned in the 4-H Club program.

Outcome Type: Long

2007 Target: 200
2008 Target: 200
2009 Target: 200
2010 Target: 200
2011 Target: 200

Outcome Text

Youth who develop life skills.

Outcome Type: Long

2007 Target: 200
2008 Target: 200
2009 Target: 200
2010 Target: 200
2011 Target: 200

20. External factors which may affect outcomes

- Appropriations changes
- Competing Public priorities

Description

If appropriations for 4-H are reduced, it will affect efforts.

21. Evaluation studies planned

- During (during program)

Description

A projected number of 4-H Clubs has been targeted for selected counties. We will compare actual numbers with projections.

22. Data Collection Methods

- On-Site
- Observation

Description

Observations are used to compare actual numbers of 4-H clubs to projections. Also, pre- and post test will be used to evaluate effectiveness activities.

1. Name of the Planned Program

Extended Education

2. Program knowledge areas

- 806 Youth Development 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Extended Education Program is designed to help students who need extra assistance in reading, writing, math and science. This program supplements knowledge learned in the regular school classroom.

6. Situation and priorities

Many Oklahoma students in grades K through five are unable to keep up with the progression of reading and math classes taught in the regular school classroom. Consequently, these students are falling further behind academically. The extended Education program offers help and hope for these students.

7. Assumptions made for the Program

Funding will be constant.

8. Ultimate goal(s) of this Program

To help program participants develop learning skills in reading, writing, math and science that help them to excel in these areas.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct classes and mini camps in reading, writing, math and science for youth in Oklahoma.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Other 1 (Mini camps) 	<ul style="list-style-type: none"> ● Other 1 (Flyers) ● Other 2 (Worksheets)

15. Description of targeted audience

Youth in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	30	30
2008	0	0	30	30
2009	0	0	30	30
2010	0	0	30	30
2011	0	0	30	30

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects competed on Extended Education.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of youth taught extended education techniques.

Outcome Type: Long

2007 Target: 30
 2008 Target: 30
 2009 Target: 30
 2010 Target: 30
 2011 Target: 30

Outcome Text

Number of youth grasping and using extended education techniques.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 20
 2011 Target: 20

Outcome Text

Number of youth who improved their academic performance and catch up in the classroom.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 10

2011 Target: 10

20. External factors which may affect outcomes

- Competing Public priorities

Description

If school systems implement longer school days and longer school years, it could affect outcomes.

21. Evaluation studies planned

- Before-After (before and after program)

Description

Pre- and post-test swill be conducted to evaluate levels of learning.

22. Data Collection Methods

- Whole population

Description

Data on pre- and post-tests will be collected and analyzed.

1. Name of the Planned Program

Family and Consumer Sciences

2. Program knowledge areas

- 801 Individual and Family Resource Management 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Family and Consumer Sciences Program recognizes the family as being the cornerstone of a healthy society and it is committed to improving the quality of life and well-being of families. This program assists families in the areas of food and nutrition, parenting, clothing, money management, personal development and other family-related areas.

6. Situation and priorities

Many of the challenges we now face as a society have roots in the family. Approximately half of all marriages today end in divorce. Single parent homes have become the norm rather than the exception. Oklahoma is among the leader in states where grandparents are raising their grandchildren. Family and Consumer Sciences resources and involvement are needed and in demand.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To help participating families in Oklahoma strengthen their marital bonds, develop better money management skills and make more informed consumer decisions.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct classes, seminars, workshops and forums to share Family and Consumer Sciences resources.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Forums) 	<ul style="list-style-type: none"> ● Other 1 (Flyers) ● Other 2 (Handouts)

15. Description of targeted audience

Citizens of Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	200	20	20
2008	100	200	20	20
2009	100	200	30	20
2010	100	200	40	20
2011	100	200	50	20

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Family and Consumer Sciences

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of participants who learned about Family and Consumer Sciences.

Outcome Type: Long

2007 Target: 100
 2008 Target: 100
 2009 Target: 100
 2010 Target: 100
 2011 Target: 100

Outcome Text

Number of participants who used Family and Consumer Sciences resources.

Outcome Type: Long

2007 Target: 20
 2008 Target: 30
 2009 Target: 40
 2010 Target: 40
 2011 Target: 50

Outcome Text

Number of families that improved their quality of life at least in part from this program.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 10

2011 Target: 10

20. External factors which may affect outcomes

- Competing Public priorities

Description

Society's view and definitions of a family could affect outcomes.

21. Evaluation studies planned

- Case Study

Description

Selected families will be observed and data collected to evaluate the effectiveness of this program.

22. Data Collection Methods

- Case Study

Description

Data will be collected on nutrition planning and money management skills development.

1. Name of the Planned Program

Food and Nutrition

2. Program knowledge areas

- 504 Home and Commercial Food Service 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The Food and Nutrition Program will join efforts with our newly acquired EFNEP Program to provide healthy nutrition education to needy citizens of Oklahoma. Elderly citizens in rural areas will receive special focus.

6. Situation and priorities

Proper nutrition is an important component of a healthy lifestyle. Oklahoma is high among other states with a high obesity rate among its populace. Food and nutrition training are needed to reduce the obesity numbers and the diseases that often accompany this condition.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To help participants develop healthy nutrition and exercise regiments that result in healthier lives.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	2.0	0.0	0.0
2008	0.0	2.0	0.0	0.0
2009	0.0	2.0	0.0	0.0
2010	0.0	2.0	0.0	0.0
2011	0.0	2.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct classes, seminars, workshops and hold community forums to teach healthy food and nutrition concepts.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Seminars) ● Other 2 (Forums) 	<ul style="list-style-type: none"> ● Other 1 (Flyers) ● Other 2 (Handouts)

15. Description of targeted audience

Citizens of Oklahoma

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	200	100	200
2008	100	200	100	200
2009	100	200	100	200
2010	100	200	100	200
2011	100	200	100	200

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects competed on Food and Nutrition.

- 2007 Target: 0
- 2008 Target: 0
- 2009 Target: 0
- 2010 Target: 0
- 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of participants who learned about food and nutrition.

Outcome Type: Long

- 2007 Target: 200
- 2008 Target: 200
- 2009 Target: 200
- 2010 Target: 200
- 2011 Target: 200

Outcome Text

Number of participants who used knowledge/guidelines presented during food and nutrition sessions.

Outcome Type: Long

- 2007 Target: 50
- 2008 Target: 50
- 2009 Target: 50
- 2010 Target: 50
- 2011 Target: 50

Outcome Text

Number of participants who improve thier lifestyles by following food and nutrition guidelines.

Outcome Type: Long

2007 Target: 10

2008 Target: 10

2009 Target: 10

2010 Target: 10

2011 Target: 10

20. External factors which may affect outcomes

- Government Regulations
- Competing Public priorities

Description

Updated government regulations could affect the nutritional guidelines and parameters set for this program.

21. Evaluation studies planned

- During (during program)

Description

Participants will be tested for weight loss/gain and body mass index.

22. Data Collection Methods

- Sampling
- On-Site

Description

Selected participants will be screened for weight loss/gain and body mass index.

1. Name of the Planned Program

Biotechnology

2. Program knowledge areas

- 201 Plant Genome, Genetics, and Genetic Mechanisms 100 %

3. Program existence

- Intermediate (One to five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The genomic research component of this program is targeting peanut plant organs and seed genes for yield and nutritional quality improvement. The program is seeking to use biotechnology to produce eatable peanuts that are high in nutritional quality and possibly void of the allergens that prevent many people from consuming peanuts or food cooked in peanut oil.

6. Situation and priorities

Peanuts are the most popular legume in the United States for human consumption. However, peanuts contain substances that are allergens for many people. These allergens can cause illness and in some cases are lethal.

7. Assumptions made for the Program

Funding will remain constant or increase.

8. Ultimate goal(s) of this Program

To identify and separate plant genes that can be used to produce genetically superior peanuts and other cash crops.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.0	0.0	2.0
2008	0.0	0.0	0.0	2.0
2009	0.0	0.0	0.0	2.0
2010	0.0	0.0	0.0	2.0
2011	0.0	0.0	0.0	2.0

Outputs for the Program

13. Activity (What will be done?)

Researchers will develop a local peanut nucleotide data base and build a bioinformatics pipeline for peanut gene discovery.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop 	<ul style="list-style-type: none"> ● Web sites ● Other 1 (Research papers)

15. Description of targeted audience

All peanut producers in Oklahoma

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	15	50	0	0
2008	15	50	0	0
2009	20	100	0	0
2010	20	100	0	0
2011	25	100	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Biotechnology.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 3

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning about the peanut nucleotide database.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 30
 2011 Target: 30

Outcome Text

Number of farmers using the peanut nucleotide database.

Outcome Type: Long

2007 Target: 5
 2008 Target: 5
 2009 Target: 10
 2010 Target: 10
 2011 Target: 15

Outcome Text

Farmers who use the peanut nucleotide database or new peanut gene discoveries to improve their peanut production system.

Outcome Type: Long

2007 Target: 0

2008 Target: 1

2009 Target: 2

2010 Target: 3

2011 Target: 4

20. External factors which may affect outcomes

- Competing Public priorities

Description

If the public's view on biotechnology changes, funding levels may be affected.

21. Evaluation studies planned

- Time series (multiple points before and after program)

Description

Developed peanut genetic lines will be monitored and tested for stability

22. Data Collection Methods

- Sampling
- Observation
- Tests

Description

Tests will be conducted with developed peanut lines that are free of allergens for thuman allergic responses.

1. Name of the Planned Program

Water Gardens (Aquaculture)

2. Program knowledge areas

- 401 Structures, Facilities, and General Purpose Farm Supplies 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

Some Oklahoma fish farmers are beginning to produce fish for the growing water garden industry. The activities occurring in this program will assist home water gardeners with management practices and also assist fish farmers in production and marketing of ornamental aquatic species.

6. Situation and priorities

Water gardens are rapidly increasing in popularity in Oklahoma. Homeowners have expressed frustration with their inability to solve water garden problems induced by system location in combination with poor husbandry and poor hygiene.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

Assist clientele in decreasing the operational costs of their water gardens.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.3	0.0	0.1
2008	0.0	0.3	0.0	0.1
2009	0.0	0.3	0.0	0.1
2010	0.0	0.3	0.0	0.1
2011	0.0	0.3	0.0	0.1

Outputs for the Program

13. Activity (What will be done?)

Fish loading testing will be performed and fish loading modeling will be conducted. Nurient uptake experiments will be conducted.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Other 1 (Fact Sheets) ● Other 2 (User Models)

15. Description of targeted audience

All aquaculture farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	300	0	0
2008	100	300	0	0
2009	100	300	0	0
2010	100	300	0	0
2011	100	300	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Water Gardens

2007 Target: 0
 2008 Target: 0
 2009 Target: 1
 2010 Target: 1
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning water garden techniques.

Outcome Type: Long

2007 Target: 50
 2008 Target: 60
 2009 Target: 70
 2010 Target: 80
 2011 Target: 100

Outcome Text

Number of farmers using water garden techniques.

Outcome Type: Long

2007 Target: 10
 2008 Target: 10
 2009 Target: 20
 2010 Target: 20
 2011 Target: 30

Outcome Text

Farmers who improve the water quality of their water gardens and reduce operational costs.

Outcome Type: Long

2007 Target: 10

2008 Target: 10

2009 Target: 20

2010 Target: 20

2011 Target: 30

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

A prolonged drought may slow down the present growth in water garden construction in Oklahoma.

21. Evaluation studies planned

- Time series (multiple points before and after program)

Description

A cost analysis will be performed to see if fish farmers have made profits with the sales of ornamental fish species.

22. Data Collection Methods

- Sampling

Description

The portfolios of selected producers will be reviewed to determine if there is an increase in income due to sales of ornamental fish species.

1. Name of the Planned Program

Alternative Species (Aquaculture)

2. Program knowledge areas

- 307 Animal Management Systems 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

Research with buffalo fish species under polyculture conditions will allow us to determine if we can sustainably and economically use buffalo fish to diversify fish operations. This research will benefit aquaculture producers in Oklahoma and the surrounding region.

6. Situation and priorities

Pressure on domestic fish markets by foreign imports and high fuel prices are focusing catfish farmers to curtail production or diversity with alternative fish species.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To establish sustainable alternative fish species for Oklahoma aquaculture producers.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.5	0.0	1.5
2008	0.0	0.5	0.0	1.5
2009	0.0	0.5	0.0	1.5
2010	0.0	0.5	0.0	1.5
2011	0.0	0.5	0.0	1.5

Outputs for the Program

13. Activity (What will be done?)

Buffalo fish species will be tested for sustainability and profitability in Oklahoma.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Other 1 (Proceedings) ● Other 2 (Fact Sheets)

15. Description of targeted audience

All aquaculture farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	300	0	0
2008	100	300	0	0
2009	100	300	0	0
2010	100	300	0	0
2011	100	300	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Alternative Species

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning alternative fish species techniques.

Outcome Type: Long

2007 Target: 50
 2008 Target: 60
 2009 Target: 70
 2010 Target: 80
 2011 Target: 100

Outcome Text

Number of farmers using alternative fish species techniques.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 30
 2011 Target: 40

Outcome Text

Farmers who improved their yearly income by using alternative fish species.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 10

2010 Target: 10

2011 Target: 20

20. External factors which may affect outcomes

- Natural Disasters (drought, weather extremes, etc.)

Description

A prolonged drought may adversely affect fish production by producers.

21. Evaluation studies planned

- After Only (post program)

Description

A cost analysis will be performed to see if diversifying fish production with alternative species is financially feasible.

22. Data Collection Methods

- Sampling
- On-Site

Description

Alternative fish production will be tested on the campus for sustainability and potential profitability. These results will be compared to actual results of selected producers.

1. Name of the Planned Program

Feeder Design (Aquaculture)

2. Program knowledge areas

- 401 Structures, Facilities, and General Purpose Farm Supplies 100 %

3. Program existence

- New (One year or less)

4. Program duration

- Medium Term (One to five years)

5. Brief summary about Planned Program

This Feeder Design Program will perform research needed to design a commercial fish feeder tailored for small aquaculture ponds. Aquaculture producers with small ponds could then enjoy the competitive advantage of mechanized feeding systems adaptable to their ponds and less costly than present models.

6. Situation and priorities

Commercial fish feeders are used to increase the efficiency of feed delivery in cultured species. Commercial feeders presently on the market were designed for large farms (>300 acres) that have large ponds (>10 acres). Most Oklahoma farms have ponds of one acre or less. Currently, there are no commercial feeders available specifically for small ponds.

7. Assumptions made for the Program

Funding will be constant.

8. Ultimate goal(s) of this Program

Assist small farmers by designing commercial fish feeders that will reduce fish production costs.Λ

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- No

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.0	0.0	0.0
2008	0.0	0.0	0.0	0.0
2009	0.0	0.5	0.0	1.5
2010	0.0	0.5	0.0	1.5
2011	0.0	0.5	0.0	1.5

Outputs for the Program

13. Activity (What will be done?)

Research will be performed to design commercial fish feeders that are tailored for small ponds.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Other 1 (Proceedings) ● Other 2 (Fact Sheets)

15. Description of targeted audience

All aquaculture farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	0	0	0	0
2008	0	0	0	0
2009	100	300	0	0
2010	100	300	0	0
2011	100	300	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Feeder Design.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning fish feeder design techniques.

Outcome Type: Long

2007 Target: 0
 2008 Target: 0
 2009 Target: 40
 2010 Target: 40
 2011 Target: 50

Outcome Text

Number of farmers using fish feeder design techniques.

Outcome Type: Long

2007 Target: 0
 2008 Target: 0
 2009 Target: 5
 2010 Target: 10
 2011 Target: 15

Outcome Text

Farmers who design and build fish feeders that help increase fish feeding efficiency.

Outcome Type: Long

2007 Target: 0

2008 Target: 0

2009 Target: 5

2010 Target: 10

2011 Target: 10

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

A prolonged drought may adversely affect fish productions.

21. Evaluation studies planned

- Time series (multiple points before and after program)

Description

Cost analyses will be conducted to determine if small pond fish feeders helped small producers save money.

22. Data Collection Methods

- Sampling

Description

Cost analyses will be conducted to determine effectiveness of small pond fish feeders.

1. Name of the Planned Program

Phytoplankton (Aquaculture)

2. Program knowledge areas

- 111 Conservation and Efficient Use of Water 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Short-Term (One year or less)

5. Brief summary about Planned Program

Research will be performed to provide needed information on phytoplankton management. Information on management of phytoplankton will increase the efficiency of fish production. Management information will also, be adaptable for use in water supply reservoirs for domestic consumption and recreation.

6. Situation and priorities

Learning to manage phytoplankton populations in aquaculture ponds is vital for sustainable production systems. Poor control of phytoplankton populations results in economic losses from fish kills, off-flavor and reduce population efficiency.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To contain or eradicate phytoplankton problems to increase fish farmers' production levels and income.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.2	0.0	1.2
2008	0.0	0.2	0.0	1.2
2009	0.0	0.2	0.0	1.2
2010	0.0	0.2	0.0	1.2
2011	0.0	0.2	0.0	1.2

Outputs for the Program

13. Activity (What will be done?)

Water analysis and phytoplankton management practices will be tested to determine feasible methods of phytoplankton management for small scale fish farmers.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Other 1 (Proceedings) ● Other 2 (Fact Sheets)

15. Description of targeted audience

All aquaculture farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	300	0	0
2008	100	300	0	0
2009	100	300	0	0
2010	100	300	0	0
2011	100	300	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Phytoplankton.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning phytoplankton management techniques.

Outcome Type: Long

2007 Target: 50
 2008 Target: 60
 2009 Target: 70
 2010 Target: 80
 2011 Target: 100

Outcome Text

Number of farmers using phytoplankton management techniques.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 20
 2011 Target: 30

Outcome Text

Farmers who adopted phytoplankton management techniques to contain or eradicate their phytoplankton problems.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 10

2010 Target: 10

2011 Target: 15

20. External factors which may affect outcomes

- Natural Disasters (drought, weather extremes, etc.)

Description

A prolonged drought may adversely affect fish production.

21. Evaluation studies planned

- During (during program)

Description

Cost analyses will be performed to determine if phytoplankton control techniques resulted in increased income.

22. Data Collection Methods

- Sampling
- Observation

Description

Cost analyses will be used.

1. Name of the Planned Program

Fishery Management (Aquaculture)

2. Program knowledge areas

- 307 Animal Management Systems 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

Fishery management methods will be researched for ways to increase efficiency of fishery operations. This research will include efficient management practices under such conditions as droughts, leaks and aquatic vegetation control.

6. Situation and priorities

Fishery management methods can add to or reduce production costs and affect the profitability of an operation. Proven, efficient management methods would help Oklahoma fisheries to operate more cost effectively.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To assist fish farmers in developing fishery management techniques that will reduce production costs, sustain operations and increase profits.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	1.0	0.0	0.0
2008	0.0	1.0	0.0	0.0
2009	0.0	1.0	0.0	0.0
2010	0.0	1.0	0.0	0.0
2011	0.0	1.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Work will be performed in fishery management under such conditions as drought, aquatic vegetation infestation and pond leaks.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Web sites ● Other 1 (Fact Sheets) ● Other 2 (Proceedings and CD's)

15. Description of targeted audience

All aquaculture farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	300	0	0
2008	100	300	0	0
2009	100	300	0	0
2010	100	300	0	0
2011	100	300	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

Number of Research Projects completed on Fishery Management.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 2

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning new fisher management techniques.

Outcome Type: Long

2007 Target: 50
 2008 Target: 60
 2009 Target: 70
 2010 Target: 80
 2011 Target: 100

Outcome Text

Number of farmers using new fisher management techniques.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 20
 2011 Target: 30

Outcome Text

Farmers who have improved thier production efficiency and raised their profits with the new fishery management techniques.

Outcome Type: Long

2007 Target: 5

2008 Target: 10

2009 Target: 10

2010 Target: 20

2011 Target: 20

20. External factors which may affect outcomes

- Natural Disasters (drought, weather extremes, etc.)

Description

A prolonged drought may adversely affect fish production.

21. Evaluation studies planned

- During (during program)

Description

Cost analyses will be used to determine if fish management techniques resulted in increased income for producers.

22. Data Collection Methods

- Sampling
- Portfolio Reviews

Description

Cost analyses will be used.

1. Name of the Planned Program

Sustainable Internal Parasite Control for Small Ruminants

2. Program knowledge areas

- 313 Internal Parasites in Animals 100 %

3. Program existence

- Intermediate (One to five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United State has led to growing importance of goat production and goat products to United State agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat and milk. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To contain or eradicate internal parasites in goats.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.5	0.0	0.0
2008	0.0	0.5	0.0	0.0
2009	0.0	0.5	0.0	0.0
2010	0.0	0.5	0.0	0.0
2011	0.0	0.5	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Work will be performed to discover effective internal parasite control methods for goats.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites ● Other 1 (Proceedings)

15. Description of targeted audience

All goat producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	200	400	0	0
2008	200	400	0	0
2009	200	400	0	0
2010	200	400	0	0
2011	200	400	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

{NO DATA ENTERED}

Target: {NO DATA ENTERED}

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning internal parasite control techniques.

Outcome Type: Long

2007 Target: 200

2008 Target: 200

2009 Target: 200

2010 Target: 200

2011 Target: 200

Outcome Text

Number of goat producers using internal parasite control techniques.

Outcome Type: Long

2007 Target: 50

2008 Target: 50

2009 Target: 50

2010 Target: 50

2011 Target: 50

Outcome Text

Goat producers who have gotten internal parasites under control by using the learned control technique.

Outcome Type: Long

2007 Target: 15

2008 Target: 15

2009 Target: 15

2010 Target: 15

2011 Target: 15

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Unforeseen disease or insect infestations could adversely affect goat production and outcomes.

21. Evaluation studies planned

- During (during program)

Description

Use of proposed internal parasite control method will be compared to methods presently in use by goat producers. Effectiveness of methods will be compared.

22. Data Collection Methods

- Sampling
- Mail
- Telephone
- On-Site
- Observation

Description

Results of proposed control methods will be compared to those presently in use by producers.

1. Name of the Planned Program

Goat Internet Website

2. Program knowledge areas

- 903 Communication, Education, and Information Delivery 100 %

3. Program existence

- Intermediate (One to five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products to United States agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat and milk. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To make our website a one-stop shop for goat information and ordering goat foods and products.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.2	0.0	0.0
2008	0.0	0.2	0.0	0.0
2009	0.0	0.2	0.0	0.0
2010	0.0	0.2	0.0	0.0
2011	0.0	0.2	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

The Langston University goat internet website provides quality information for goat producers. This website will continue to be updated with viable information and expanded.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Web sites

15. Description of targeted audience

All goat producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	200	800	0	0
2008	200	800	0	0
2009	200	800	0	0
2010	200	800	0	0
2011	200	800	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Goat Internet Website.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning about information found on the goat internet website.

Outcome Type: Long

2007 Target: 800
 2008 Target: 800
 2009 Target: 800
 2010 Target: 800
 2011 Target: 800

Outcome Text

Number of goat producers using the goat internet website.

Outcome Type: Long

2007 Target: 500
 2008 Target: 500
 2009 Target: 500
 2010 Target: 500
 2011 Target: 500

Outcome Text

Goat producers who improved their operations with information from the goat internet website.

Outcome Type: Long

2007 Target: 50

2008 Target: 50

2009 Target: 50

2010 Target: 50

2011 Target: 50

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Unforeseen disease or insect infestations could adversely affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Number of hits on the website will be noted for useage of website. Surveys will be used to determine effectiveness of the website.

22. Data Collection Methods

- Sampling
- Mail
- On-Site

Description

Surveys will be used.

1. Name of the Planned Program

Development of New Dairy Goat Products

2. Program knowledge areas

- 502 New and Improved Food Products 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products to United States agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat and milk. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

Assisting goat producers in becoming successful entrepreneurs of food and non-food goat products.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.1	0.0	0.0
2008	0.0	0.1	0.0	0.0
2009	0.0	0.1	0.0	0.0
2010	0.0	0.1	0.0	0.0
2011	0.0	0.1	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Work will be performed to develop new dairy goat products and create new opportunities for goat producers.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Demonstrations ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites ● Other 1 (Proceedings)

15. Description of targeted audience

All goat producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	200	400	0	0
2008	200	400	0	0
2009	200	400	0	0
2010	200	400	0	0
2011	200	400	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	1

18. Output measures

Output Text

{NO DATA ENTERED}

Target: {NO DATA ENTERED}

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning about techniques for developing new dairy goat products.

Outcome Type: Long

2007 Target: 200

2008 Target: 200

2009 Target: 200

2010 Target: 200

2011 Target: 200

Outcome Text

Number of goat producers using techniques for developing new dairy goat products.

Outcome Type: Long

2007 Target: 40

2008 Target: 40

2009 Target: 40

2010 Target: 40

2011 Target: 40

Outcome Text

Goat producers developing increasing yearly income from new dairy goat products.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 5

2011 Target: 5

20. External factors which may affect outcomes

- Natural Disasters (drought, weather extremes, etc.)

Description

Unforeseen disease or insect infestations could adversely affect goat production.

21. Evaluation studies planned

- After Only (post program)

Description

A cost analysis will be performed to see if new goat products have led to increased income for producers.

22. Data Collection Methods

- Sampling
- On-Site
- Portfolio Reviews

Description

The portfolio of selected producers will be reviewed to determine if new goat products have led to increased income.

1. Name of the Planned Program

Demonstration Clinic: Artificial Insemination for Goats

2. Program knowledge areas

- 301 Reproductive Performance of Animals 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products to United States agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat and milk. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

Goat producers (regardless of farm size) will have ready access to genetically superior sires for herd improvement.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- No

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.1	0.0	0.0
2008	0.0	0.1	0.0	0.0
2009	0.0	0.1	0.0	0.0
2010	0.0	0.1	0.0	0.0
2011	0.0	0.1	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Hands-on artificial insemination (AI) workshops will be conducted to teach AI techniques to goat producers. These AI skills will allow goat producers to gain access to genetically superior sires for herd improvement.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites ● Other 1 (Fact Sheets)

15. Description of targeted audience

All goat producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	40	100	0	0
2008	40	100	0	0
2009	40	100	0	0
2010	40	100	0	0
2011	40	100	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

{NO DATA ENTERED}

Target: {NO DATA ENTERED}

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning about artificial insemination techniques.

Outcome Type: Long

2007 Target: 40

2008 Target: 40

2009 Target: 40

2010 Target: 40

2011 Target: 40

Outcome Text

Number of goat producers using artificial insemination techniques.

Outcome Type: Long

2007 Target: 20

2008 Target: 20

2009 Target: 20

2010 Target: 20

2011 Target: 20

Outcome Text

Goat producers who improved their herds by using artificial insemination techniques.

Outcome Type: Long

2007 Target: 2

2008 Target: 2

2009 Target: 2

2010 Target: 2

2011 Target: 2

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Unforeseen disease/insect infestations could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Surveys will be used to determine satisfaction of producers who use techniques learned in the demonstration clinics.

22. Data Collection Methods

- Whole population
- On-Site

Description

Surveys will be used.

1. Name of the Planned Program

Fish Marketing (Aquaculture)

2. Program knowledge areas

- 601 Economics of Agricultural Production and Farm Management 100 %

3. Program existence

- Intermediate (One to five years)

4. Program duration

- Medium Term (One to five years)

5. Brief summary about Planned Program

This program will explore the development of additional aquaculture fishery products and markets based upon using normally underused native fishes. This research will benefit aquaculture product consumers and provide additional income stability for aquaculture producers.

6. Situation and priorities

FDA/EPA have issued advisories regarding frequency and amount of seafood consumption due to high methyl mercury concentration in wild freshwater and marine fish species. This may provide an opportunity for aquaculture producers to develop and market domestic alternative products.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To help aquaculture producers establish more profitable fish marketing methods with alternative fish species.

9. Scope of Program

- In-State Extension

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.5	0.0	1.5
2008	0.0	0.5	0.0	1.5
2009	0.0	0.5	0.0	1.5
2010	0.0	0.0	0.0	0.0
2011	0.0	0.0	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Methods of marketing alternative fish species will be explored to increase fish producers' profits.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Other 1 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Fact Sheets)

15. Description of targeted audience

All aquaculture producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	300	0	0
2008	100	300	0	0
2009	100	300	0	0
2010	0	0	0	0
2011	0	0	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Fish Marketing.

2007 Target: 0
 2008 Target: 0
 2009 Target: 1
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning new fish marketing techniques.

Outcome Type: Short

2007 Target: 50
 2008 Target: 60
 2009 Target: 70
 2010 Target: 0
 2011 Target: 0

Outcome Text

Number of farmers using new fish marketing techniques.

Outcome Type: Medium

2007 Target: 10
 2008 Target: 20
 2009 Target: 30
 2010 Target: 0
 2011 Target: 0

Outcome Text

Farmers who use new fish marketing techniques to increase their profits.

Outcome Type: Long

2007 Target: 5

2008 Target: 10

2009 Target: 20

2010 Target: 0

2011 Target: 0

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

A prolonged drought may adversely affect fish production by producers

21. Evaluation studies planned

- Time series (multiple points before and after program)

Description

Production and sales of buffalo fishes will be monitored at multiple points during the project.

22. Data Collection Methods

- Sampling

Description

Profit comparisons

Sustainability

1. Name of the Planned Program

Meat Buck Performance Test

2. Program knowledge areas

- 303 Genetic Improvement of Animals 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products to United States agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

Goat producers' herds will produce such high quality animals until meat buck performance testing is no longer needed.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- No

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.2	0.0	0.0
2008	0.0	0.2	0.0	0.0
2009	0.0	0.2	0.0	0.0
2010	0.0	0.2	0.0	0.0
2011	0.0	0.2	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct the annual meat goat performance test for young, growing meat bucks to evaluate growth and feed efficiency.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● Other 1 (Seminars) ● Other 2 (Field Days) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

15. Description of targeted audience

All goat producers in Oklahoma

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	50	100	0	0
2008	50	100	0	0
2009	50	100	0	0
2010	50	100	0	0
2011	50	100	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Meat Buck Performance Test.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers learning about the meat buck performance test.

Outcome Type: Long

2007 Target: 100
 2008 Target: 100
 2009 Target: 100
 2010 Target: 100
 2011 Target: 100

Outcome Text

Number of goat producers using the meat goat performance test.

Outcome Type: Long

2007 Target: 50
 2008 Target: 50
 2009 Target: 50
 2010 Target: 50
 2011 Target: 50

Outcome Text

Goat producers who improve their herds via the meat buck performance test.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 5

2011 Target: 5

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Unforeseen disease/insect infestation could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Surveys will be used to determine satisfaction of producers who enroll animals in the meat buck performance test.

22. Data Collection Methods

- Whole population
- On-Site

Description

Surveys will be used.

1. Name of the Planned Program

Goat Dairy Herd Improvement (DHI) Laboratory

2. Program knowledge areas

- 308 Improved Animal Products (Before Harvest) 100 %

3. Program existence

- Mature (More than five years)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

The rapidly increasing number of goats in the United States has led to a growing importance of goat production and goat products to United States agriculture. Goat production is an important component of the farming systems of many small, resource-poor farmers and farm families. The main program objectives are twofold, first to develop enhanced goat production technologies that allow goat farmers to produce wholesome products in demand by the consumer through increased productivity and cost efficiency, and two, to transfer those technologies to farmers through a variety of extension avenues.

6. Situation and priorities

The program/project is needed to address factors impacting level of goat production and efficiency of goat production systems, nutrition, management, health, and product utilization including meat and milk. The project is expected to make discoveries that would positively impact producers and consumers.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

Goat producer's herds will produce such high quality milk until goat dairy herd improvement milk testing is no longer needed.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	1.1	0.0	0.0
2008	0.0	1.1	0.0	0.0
2009	0.0	1.1	0.0	0.0
2010	0.0	1.1	0.0	0.0
2011	0.0	1.1	0.0	0.0

Outputs for the Program

13. Activity (What will be done?)

Extension personnel will conduct goat milk quality tests in the Langston University Goat Dairy Herd Improvement Laboratory.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Workshop ● Other 1 (Field Days) ● Other 2 (Seminars) 	<ul style="list-style-type: none"> ● Newsletters ● Web sites

15. Description of targeted audience

All goat producers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	1000	1000	0	0
2008	1000	1000	0	0
2009	1000	1000	0	0
2010	1000	1000	0	0
2011	1000	1000	0	0

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Goat Dairy Herd Improvement (DHI) Laboratory.

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 0

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of goat producers who learned about the Goat Dairy Herd Improvement Laboratory.

Outcome Type: Long

2007 Target: 1000
 2008 Target: 1000
 2009 Target: 1000
 2010 Target: 1000
 2011 Target: 1000

Outcome Text

Number of goat producers who are using the Goat Dairy Herd Improvement Laboratory.

Outcome Type: Long

2007 Target: 1500
 2008 Target: 1500
 2009 Target: 1500
 2010 Target: 1500
 2011 Target: 1500

Outcome Text

Goat producers who have increased their production profits by utilizing the Goat Dairy Herd Improvement Laboratory.

Outcome Type: Long

2007 Target: 20

2008 Target: 20

2009 Target: 20

2010 Target: 20

2011 Target: 20

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Unforeseen disease/insect infestation could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Surveys will be used to determine the satisfaction of producers who use our Goat Dairy Herd Improvement Laboratory.

22. Data Collection Methods

- Sampling
- Mail

Description

Surveys will be used.

1. Name of the Planned Program

Small Farms Systems

2. Program knowledge areas

- 205 Plant Management Systems 100 %

3. Program existence

- New (One year or less)

4. Program duration

- Long-Term (More than five years)

5. Brief summary about Planned Program

Research will be performed and findings disseminated on small farm agronomic/horticultural systems. Targeted crops will be cultivars that grow well in Oklahoma and can be marketed to afford small producers a profit. Demonstration plots will also be developed to serve as an outdoor classroom.

6. Situation and priorities

Much of the field crop research and demonstrations in Oklahoma are designed for large farms. Science-based research and demonstrations tailored for small farm production systems are needed in Central Oklahoma.

7. Assumptions made for the Program

Funding will remain constant.

8. Ultimate goal(s) of this Program

To produce research findings systems that will assist small farmers in developing profitable, sustainable agriculture systems.

9. Scope of Program

- In-State Extension
- In-State Research

Inputs for the Program

10. Expending formula funds or state-matching funds

- Yes

11. Expending other than formula funds or state-matching funds

- Yes

12. Expending amount of professional FTE/SYs to be budgeted for this Program

Year	Extension		Research	
	1862	1890	1862	1890
2007	0.0	0.5	0.0	0.5
2008	0.0	0.5	0.0	0.5
2009	0.0	0.5	0.0	0.5
2010	0.0	0.5	0.0	0.5
2011	0.0	0.5	0.0	0.5

Outputs for the Program

13. Activity (What will be done?)

Research will be performed to develop profitable, sustainable small farm crop production systems. Demonstrations, seminars and field days on small farm crop systems will be presented.

14. Type(s) of methods will be used to reach direct and indirect contacts

Extension	
Direct Method	Indirect Methods
<ul style="list-style-type: none"> ● Education Class ● Workshop ● Demonstrations ● Other 1 (Seminars) 	<ul style="list-style-type: none"> ● Newsletters ● Other 1 (Fact Sheets)

15. Description of targeted audience

All farmers in Oklahoma.

16. Standard output measures

Target for the number of persons(contacts) to be reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
2007	100	200	25	50
2008	100	200	25	50
2009	100	200	25	50
2010	100	200	25	50
2011	100	200	25	50

17. (Standard Research Target) Number of Patents

Expected Patents	
Year	Target
2007	0
2008	0
2009	0
2010	0
2011	0

18. Output measures

Output Text

Number of Research Projects completed on Small Farm Systems

2007 Target: 0
 2008 Target: 0
 2009 Target: 0
 2010 Target: 0
 2011 Target: 1

Outcomes for the Program

19. Outcome measures

Outcome Text: Awareness created

Outcome Text

Number of farmers learning new small farm systems techniques.

Outcome Type: Long

2007 Target: 100
 2008 Target: 100
 2009 Target: 100
 2010 Target: 100
 2011 Target: 100

Outcome Text

Number of farmers using new small farm systems techniques.

Outcome Type: Long

2007 Target: 20
 2008 Target: 20
 2009 Target: 20
 2010 Target: 20
 2011 Target: 20

Outcome Text

Farmers who developed profitable, sustainable small farm systems.

Outcome Type: Long

2007 Target: 5

2008 Target: 5

2009 Target: 5

2010 Target: 5

2011 Target: 5

20. External factors which may affect outcomes

- Natural Disasters (drought,weather extremes,etc.)

Description

Hurricane damage, flooding, prolonged drought or unforeseen insect and/or disease infestations could affect outcomes.

21. Evaluation studies planned

- During (during program)

Description

Surveys will be conducted to determine if small producers have enhanced their enterprises through the efforts of the Small Farm Program

22. Data Collection Methods

- Sampling
- Mail
- On-Site

Description

Surveys will be used.